LCD Video Walls

Super Narrow Bezel LCD Displays
Sharp Images and Vibrant Colors
Full HD 1080p Resolution
LED Backlighting
Auto Color Calibration
Web-Based Control and Diagnostics
Industrial Design for 24/7 Operation

www.deltadisplays.com

DELTA
Smarter. Greener. Together.

Limitless As Your Imagination...

Featuring exceptional color quality, high brightness and high contrast, Delta's LCD video wall displays are the ideal solution for many demanding space-constrained video wall applications. With a 5.3mm combined bezel width, multiple screens can be tiled together to achieve a near seamless image. Expand your vision with Delta's professional-grade narrow bezel LCD video walls!

DELTA

Expand

Super Narrow Bezel

Featuring an extremely narrow bezel width of 5.3 mm, Delta's LCD video wall displays provide a near seamless image for public venues and control rooms. Additionally, it supports up to a 15 x 10 display array for outstanding tiled visual performance.

High Resolution

With full HD 1080p resolution, the LCD video walls are ideal for demanding control room environments where image quality and detail are of utmost importance.

Wide Viewing Angle

Delta's LCD video walls provide a wide viewing angle of 178° to ensure all-round visibility with excellent image quality and uniform color in large spaces.

Your Vision

LED Light Source

All of the LCD video walls feature direct LED backlights, which reduce burn-in and ensure long life, high uniformity and low power consumption for long-term and 24/7 usage.

24x7 Operation

As a tiled LCD solution, the displays offer 24/7 industrial strength and minimal maintenance for a variety of applications such as retail stores, healthcare facilities, airports, broadcast, corporate lobbies, telecom and control rooms.

Comprehensive Set of Inputs

Delta's LCD video walls come with a full array of connectivity and control options including DVI, HDMI, 3G-SDI and Display Port without the need for additional processors.

Fostering Innovations
In LCD
Technology

Auto Color Calibration

Delta's LCD video wall features an auto color calibration tool to ensure a uniform Image across the entire tiled LCD display. The calibration sensor is placed on the screen and communicates with the video wall through either USB or R232. It automatically adjusts the color and brightness to ensure all individual displays closely match.

Unified Control Module

At the core of each LCD display architecture lies a unified control box design that integrates and encapsulates the entire processing equipment and power module in one unit. This helps to make your LCD display highly fault tolerant with low MTTR and high MTBF and enhance the display system's overall reliability and ease of operation and maintenance.

Web-based Control

Delta's LCD video walls are accessible over an IP network through a browser/server architecture based software tool designed for monitoring, control and diagnostic purposes. This software application provides operators with real-time feedback on the status of the system with multiple levels of alarms.

Built-in Color Correction Circuit

To achieve consistent color and uniform brightness across displays in an LCD video wall, Delta's built-in color correction circuit maintains the optimized color and brightness to keep the entire display looking consistent and sharp.

Display Management

Icon Pro Series Controller

The Delta Icon Pro Series Controller is a multi-screen graphics controller running on the Windows® Platform. The Icon Pro Series controller drives multiple cubes to form one large logical screen called a video wall or a data wall. The video wall displays graphics information from the controller workstation as well as information from various sources connected to the controller.

Key Features

- Raid 0,1, 5 and 10 support
- KVM over LAN, serial over LAN, LAN alert
- Redundant and hot swappable components
- Remote management for hardware functions
- Xeon Quad Core with multiple processor support
- Displays resolutions up to 1920 x 1200 per channel
- Switch fabric chassis for high demanding applications
- CPU, fan, temperature and chassis intrusion detection and alarm
- SNMP trap, event log, remote power control, command line interface
- Runs on all standard Windows® operating systems and with Linux® Emulation
- Input capability (DVI -D, RGBHV, HD video, display over LAN, VNC, IP stream decoding)
- Supports decoding of multiple camera types, multiple formats, custom formats and resolutions from QCIF, D1 to HD

Control System

You're In Control

Distributive Vision Control System

Delta's Distributive Vision Control System (DVCS) is one of the world's most advanced control systems designed specifically for control room visual display systems. Combining the latest advances in Digital Signal Processing (DSP) technology and with recent improvements in video compression rates, the Delta DVCS enables customers to capture, distribute, control and display high-resolution graphics/HD video signals over an IP network- reliably and cost effectively.

Key Features

- Hot-swappable
- Compact and silent
- Low power consumption
- Real-time monitoring of all windows
- Remote display wall control through network
- Supports Hi-Fi audio transmission over the network
- Supports up to 64 input signal sources in one display
- Supports preview of 10 RGB/Video signals simultaneously
- Supports remote processor firmware upgrade over the network
- DVCS server can communicate to more than 10000 processors
- Supports multiple operators controlling a large scale display wall simultaneously
- Supports multicasting. One input signal can be displayed on an unlimited number of displays

Product Technical Specifications

Specifications	LW-5588 Series	LW-4688 Series
Resolution	1920 x 1080	1920 x 1080
Pixel Pitch	0.63 mm	0.53 mm
Light Source	LED	LED
Contrast Ratio	4000:1	4000:1
Color Capability	1.07 Billion	1.07 Billion
Response Time	8 ms	8 ms
Viewing Angle	H : 178°, V : 178°	H : 178°, V : 178°
Scan Rate	H: 30~75kHz, V: 50~85Hz	H: 30~75kHz, V: 50~85Hz
Video	NTSC, PAL, SECAM	NTSC, PAL, SECAM
	480i, 480p, 720p, 1080i, 1080p,	480i, 480p, 720p, 1080i, 1080p,
Standard Inputs	1x Digital DVI-I ; 1x Digital DVI-D ; 1x CVBS BNC ; 1x Component Video BNC ; 1x 5BNC (RGBHV or YPbPr)	1x Digital DVI-I ; 1x Digital DVI-D ; 1x CVBS BNC ; 1x Component Video BNC ; 1x 5BNC (RGBHV or YPbPr)
Standard Outputs	1x Digital DVI-D ; 1x CVBS BNC	1x Digital DVI-D ; 1x CVBS BNC
Control	RS-232/RS-422/IR	RS-232/RS-422/IR
Input Voltage	AC 90~240V@50/60 Hz	AC 90~240V@50/60 Hz
Power Consumption	< 220W	< 160W
Standby Mode	< 2W at 110V	< 2W at 110V
Temperature	0°C - 35°C (32°F - 95°F)	0°C - 35°C (32°F - 95°F)
Humidity	10% - 90%, non-condensing	10% - 90%, non-condensing
Operating Life	> 50,000 hours	> 50,000 hours
Maintenance Feature	Quick Swap Modules	Quick Swap Modules
Combined Bezel	5.3 mm	5.3 mm
Video Wall Tiling	20 x 15	20 x 15

LCD Video wall Model No.	LW-5588 SR IA/LW-5588 SR CA	LW-5588 SR IC / LW-5588 SR CC	LW-4688 SR IA/LW-4688 SR CA	LW-4688 SR IC / LW-4688 SR CC
Panel Size	55” Super Narrow Bezel	55” Super Narrow Bezel	46” Super Narrow Bezel	46” Super Narrow Bezel
Brightness	700 nits	500 nits	700 nits	500 nits
Dimension (W x H x D)	1215.3 x 686.1 x 126.2 mm	1215.5 x 686.3 x 141.7 mm	1024.1 x 578.6 x 128.1 mm	1024.1 x 578.6 x 145.7 mm

Product Technical Specifications

Specifications	LW-5580 Series	LW-4680 Series
Resolution	1920 x 1080	1920 x 1080
Pixel Pitch	0.63 mm	0.53 mm
Light Source	LED	LED
Contrast Ratio	4000:1	4000:1
Color Capability	1.07 Billion	1.07 Billion
Response Time	8 ms	8 ms
Viewing Angle	H : 178°, V : 178°	H : 178°, V : 178°
Scan Rate	H: 30~75kHz, V: 50~85Hz	H: 30~75kHz, V: 50~85Hz
Video	NTSC, PAL, SECAM	NTSC, PAL, SECAM
	480i, 480p, 720p, 1080i, 1080p,	480i, 480p, 720p, 1080i, 1080p,
Standard Inputs	1x HDMI, 1x Analog RGB BNC (CVBS), 1x Digital DVI-I	1x HDMI, 1x Analog RGB BNC (CVBS), 1x Digital DVI-I
Optional Inputs	1x 3G-SDI, 1x Display Port, 1x HD Base-T, 1x Digital DVI-I	1x 3G-SDI, 1x Display Port, 1x HD Base-T, 1x Digital DVI-I
Standard Outputs	1x Digital DVI-D	1x Digital DVI-D
Optional Outputs	1x 3G-SDI	1x 3G-SDI
Control	RS-232/RS-422/IR/ IP (Ethernet)	RS-232/RS-422/IR/ IP (Ethernet)
Input Voltage	AC 90~240V@50/60 Hz	AC 90~240V@50/60 Hz
Power Consumption	< 220W	< 160W
Standby Mode	< 2W at 110V	< 2W at 110V
Temperature	0°C - 35°C (32°F - 95°F)	0°C - 35°C (32°F - 95°F)
Humidity	10% - 90%, non-condensing	10% - 90%, non-condensing
Operating Life	> 50,000 hours	> 50,000 hours
Maintenance Feature	Quick swap modules	Quick swap modules
Combined Bezel	5.3 mm	5.3 mm
Video Wall Tiling	20 x 15	20 x 15

LCD Video wall Model No.	LW-5580 SR IA/LW-5580 SR CA	LW-5580 SR IC/LW-5580 SR CC	LW-4680 SR IA/LW-4680 SR CA	LW-4680 SR IC/LW-4680 SR CC
Panel Size	55” Super Narrow Bezel	55” Super Narrow Bezel	46” Super Narrow Bezel	46” Super Narrow Bezel
Brightness	700 nits	500 nits	700 nits	500 nits
Dimension (W x H x D)	1215.3 x 686.1 x 126.2 mm	1215.5 x 686.3 x 141.7 mm	1024.1 x 578.6 x 128.1 mm	1024.1 x 578.6 x 145.7 mm

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